

Space Needs Assessment
for the
Bridgewater Fire Department
Bridgewater, MA



September 2020

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<u>Table of Contents</u>	<u>Page Number</u>
GENERAL INFORMATION	1
GROWTH ESTIMATES	2
CALLS FOR SERVICE PROJECTIONS	2
SPACE NEEDS ASSESSMENT	5
<u>BRIDGEWATER FIRE HEADQUARTERS</u>	5
1. Public	5
2. Training Classroom / E.O.C. / Community Meeting Room	6
3. Training Supplies Storage	6
4. Supplies Storage	6
5. Medical Exam Room	7
6. Emergency Medical Director's Office	7
7. Fire Prevention Office	7
8. Administrative Offices	8
9. Watch Room / Dispatch	9
10. Equipment Storage Room	10
11. Roll Call	10
12. Tour Commander	10
13. Firefighter's Functions	11
14. Bunk Rooms / Restrooms / Lockers	11
15. Physical Training Room	12
16. Apparatus Bays	13
17. Custodial Services	15
18. Mechanical	16
19. Computer Data Rooms	17
20. Circulation	17
21. Equipment Storage Bays	17
<u>BRIDGEWATER FIRE STATIONS #2 & #3</u>	18
1. Public	18
2. Training Classroom / Community Meeting Room	19
3. Supplies Storage	19
4. Medical Exam Room	19
5. Watch Room / Copy Room / Workroom	20
6. Supervisor's Office	20
7. Firefighter's Functions	21
8. Bunk Rooms / Restrooms / Lockers	21
9. Physical Training Room	22
10. Apparatus Bays	23

11.	Custodial Services	25
12.	Mechanical	26
13.	Computer Data Rooms	27
14.	Circulation	27
15.	Vehicle Carport Shelter	27
	SPACE NEEDS SUMMARY	28
	EXTERIOR CONSIDERATIONS	30

GENERAL INFORMATION

Date: September 2020

Department: Bridgewater Fire Department

Address: 22 School Street
Bridgewater, MA 02324

Primary Contacts: Thomas D. Levy, Fire Chief
(508) 697-0900
Michael MacDermott,
Deputy Fire Chief

Total Building Area: Fire Headquarters:
22 School Street
Total: 8,267 s.f. gross
East Side Station:
Station 2
774 Plymouth St.
Total: 7,280 s.f. gross

Community Area: 28.2 square miles total
(27.5 square miles of land)
(448 acres of water)

Note: Fire Service area includes Bridgewater State University and Old Colony Correctional Facility (medium and minimum security facility focused on mental health)

GROWTH ESTIMATES

Year	2000	2010	2020	2030	2040
	<i>census</i>	<i>census</i>	<i>census</i>	<i>projected</i>	<i>projected</i>
Bridgewater, MA	25,352	26,709	27,800	28,333	28,689

source: UMass, Donahue Institute, United States Census Bureau

CALLS FOR SERVICE PROJECTIONS

Fire Department

Year	2003	2010	2019	2030	2040
<i>Fire Statistics:</i>	<i>actual</i>	<i>actual</i>	<i>actual</i>		

Calls for Service	3,328	4,041	4,711	6,000	7,500
Fire Alarm Responses	n/a	280	336	400	450
Fire Investigations	n/a	640	681	730	750
Medical Transport	n/a	1,953	2,547	3,250	4,500
FD Services Rendered	n/a	619	587	1,020	1,100
Other*	n/a	549	560	600	700
Bridgewater State College reporting as % of total		6.9% (278)	6.2% (291)	7.0% (420)	8.0% (600)
MCI Bridgewater reporting as % of total		5.9% (238)	5.8% (272)	6.5% (390)	7.0% (525)

* "Other" includes accidental, cancelled, extinguished, or patient refusals.

STAFF PROJECTIONS

Fire Personnel:

	Year	2020	2030	2040
		<i>actual</i>	<i>est.</i>	<i>est.</i>
Fire Headquarters				
Fire Chief		1	1	1
Deputy Chief		1	1	4
Captain (EMS / Training)		1	1	1
Captain / Lieutenant		4	4	0
Career Fire Fighters		24	24	32
Training Capt / EMS / Code Enforcement		0	0	0
Administrative		2	3	4
SUBTOTAL		33	34	42
Station 2 – Prattown (East)				
Deputy Chief		0	0	0
Captain / Lieutenant		4	4	0
Career Fire Fighters		16	16	16
Training Capt / EMS / Code Enforcement		0	1	1
SUBTOTAL		20	21	21
Station 3 – Scotland (West)				
Assistant Chief		0	0	1
Deputy Chief		0	0	0
Captain / Lieutenant		0	4	4
Career Fire Fighters		0	16	16
Training Capt / EMS / Code Enforcement		0	1	1
SUBTOTAL		0	21	22
Total Positions		53	76	85

VEHICLE PROJECTIONS

Fire Apparatus and Vehicles:

	Year	2020	2030	2040
		<i>estimated</i>	<i>estimated</i>	<i>estimated</i>
Fire Headquarters:				
Tower Truck / Aerial		1	1	1
Engine / Pumper Trucks		1	1	1
Ambulances		1	2	2
Pickup Truck		1	1	1
Utility Trailer		1	1	1
Shift Commander (SUV)		1	1	1
EMS Officer (SUV)		1	1	1
Antique Fire Apparatus (1840 Hand Pump)		1	1	1
SUBTOTAL		8	9	9
Station 2 – Prattown (East)				
Engine / Pumper Trucks		1	1	1
Ambulances		1	2	2
Pickup Truck / SUV		1	1	1
Utility Trailer		2	2	2
SUBTOTAL		5	6	6
Station 3 – Scotland (West)				
Tower Truck / Aerial		0	0	1
Engine / Pumper Trucks		1	1	1
Ambulance		1	1	1
Pickup Truck / SUV		1	1	1
Utility Trailer		1	1	1
Boat Trailer (22' w/trailer)		1	1	1
SUBTOTAL		5	5	6
Total Stored Apparatus / Vehicles		18	20	21

SPACE NEEDS ASSESSMENT

BRIDGEWATER FIRE HEADQUARTERS

Proposed Square Footage **(Net)**

1. Public

a.	Vestibule	120
	<ol style="list-style-type: none"> 1. Identifiable main entrance location for Public access 2. Air-lock vestibule 3. Walk off mat 4. Intercom / Phone within Vestibule, autodial to FD Dispatch 	
b.	Public Lobby	400
	<ol style="list-style-type: none"> 1. Access to Fire Prevention Offices / Clerical 2. Exterior access to Training Classroom 3. Video monitoring of space 4. Computer workstation for one (1), public access for permitting 5. 1840 Hand Pump integrated as focal point within Lobby 6. House telephone 7. Public seating for 2-4 8. Display case 9. Pamphlet rack 10. Tackboard / Poster case 11. Water cooler 12. Adjacent to Fire Prevention, Training Classroom, Public Toilets 	
c.	Public Toilet Rooms	Two (2) @ 180 360
	<ol style="list-style-type: none"> 1. Handicap accessible 2. Male and Female toilet rooms, multiple fixture required, minimum 3. Sized for Training Room capacity 4. Adjacent to Training Classroom 	

2. *Training Classroom / E.O.C. / Community Meeting Room*

- a. Location
1. Adjacent to Public Lobby, Toilets, Exterior Entry
 2. Utilize for Department Training, Meetings, Social Events, Emergency Operations Center, Warming Shelter, Community gatherings.
- b. Training Classroom 1,200
1. Seating for one-hundred (100) at chairs only
 2. Flat floor, hard floor surface
 3. Folding partition to separate space into two (2) meeting spaces
 4. Projection screen / Smartboard
 5. Independent sound system
 6. Lighting on dimmers, varied lighting levels
 7. Movable tables and chairs
 8. TV monitor(s) with A/V connections
 9. Coat storage
 10. Radio communications remote console position
 11. Portable podium
 12. Coffee counter with sink, microwave, under counter refrigerator
- c. Furniture Storage 200
1. Storage of movable table and chairs
 2. Adjacent to Training Classroom
- d. Audio Visual Storage 80
1. Storage of sound system amplifier head end equipment
 2. Rack mounted equipment

3. *Training Supplies Storage*

- a. Training Supplies Storage 80
1. Storage of training material, manuals, training aids, etc.
 2. Storage of audio-visual equipment head end equipment, rack mounted
 3. Adjacent to Training Classroom

4. *Supplies Storage*

- a. Supplies Storage 100
1. Storage of food items, kitchen supplies, sound equipment, emergency management supplies, cots, ham radio equipment, etc.
 2. Adjacent to Training Classroom

5. *Medical Exam Room*

- a. Medical Exam Room 75
1. Personal exam space for use by professional staff
 2. Sink / countertop / storage cabinet / PPE storage
 3. Adjacent to Training Classroom

6. *Emergency Management Director's Office*

- a. Emergency Management Director's Office 125
1. Workstation for one (1)
 2. Visitor's chairs for two (2)
 3. File storage
 4. Bookshelving / manuals storage
 5. Adjacent to Training Classroom

7. *Fire Prevention Office*

- a. Fire Prevention Office 320
1. Workstations for two (2) Inspectors
 2. Visitor's chairs, one (1) per workstation
 3. Bookshelving / manuals storage / reference materials / codes
 4. File Storage, active and archive storage
 5. Flat files for plan storage
 6. Adjacent to Clerical Workstation, Interview Room
- b. Clerical Workstation 200
1. Workstations for one (1)
 2. Waiting chairs for two (2)
 3. Transaction window to Public Lobby, sliding type
 4. File Storage, active and archive storage
 5. Bookshelving
 6. Adjacent to Public Lobby, Fire Prevention Office, Interview Room
- c. Interview Room 125
1. Workstation for one (1)
 2. Visitor's chairs for two (2)
 3. Audio and video recording capabilities, mute option
 4. Acoustic separation from adjacent spaces
 5. Adjacent to Clerical Workstation, Public Lobby

8. *Administrative Offices*

- a. Fire Chief 250
1. Workstation for one (1)
 2. Credenza
 3. Conference table with seating for four (4)
 4. File storage
 5. Bookshelving / manuals storage
 6. Adjacent to Executive Assistant, Assistant Chief, Conference Room
- b. Assistant Chief 225
1. Workstation for one (1)
 2. Credenza
 3. Conference table with seating for four (4)
 4. File storage
 5. Bookshelving / manuals storage
 6. Adjacent to Executive Assistant, Fire Chief, Conference Room
- c. Shift Deputy Office 150
1. Workstation for one (1)
 2. Visitor's chairs for two (2)
 3. File storage
 4. Bookshelving / manuals storage
 5. Adjacent to Executive Assistant, Conference Room
- d. Training / EMS Office 150
1. Workstation for one (1)
 2. Visitor's chairs for two (2)
 3. File storage
 4. Bookshelving / manuals storage
 5. Adjacent to Administrative Assistant, Conference Room
- e. Executive Assistant 280
1. Workstation for one (1)
 2. Waiting chairs for two (2)
 3. File storage for active and archive filing needs
 4. Bookshelving
 5. Adjacent to Workroom, Administrative Offices, Conference Room

- f. Conference Room 280
1. Conference seating for 10-12, minimum
 2. Markerboard
 3. Wall mounted monitor(s)
 4. Adjacent to Administrative Offices, Executive Assistant
- g. Workroom 180
1. High speed copier / scanner
 2. Paper shredder
 3. Sink / countertop area
 4. Fax machine
 5. Microwave
 6. Undercounter refrigerator
 7. File storage
 8. Office supplies storage / paper storage / mailing equipment
 9. Adjacent to Executive Assistant, Administrative Offices
- h. Toilet / Shower / Lockers 125
1. Toilet, sink, shower for single occupancy use
 2. Handicap adaptable
 3. Locker storage for four (4)

9. *Watch Room / Dispatch*

- a. Watch Room / Dispatch 350
1. Console position for one (1) to include base radios, dispatch equipment, local radio frequencies for PD / DPW / Mutual Aid
 2. Computer workstations for two (2)
 3. Access control at points of entry
 4. Overhead door controls for Apparatus Bays
 5. Lighting on dimming controls / uplighting
 6. Bookshelving / Manuals storage
 7. Tackboard / markerboard
 8. Monitoring of building CCTV network
 9. Conduits to antenna mount locations
 10. Tone generator
 11. Recharge racks for portable radios / battery recharging
 12. Fax machine
 13. Multi-purpose copier / scanner
 14. Adjacent to Firefighter's Functions, Apparatus Bays

b.	<u>Toilet Rooms (Unisex)</u>	60
	1. Handicap accessible	
	2. Toilet / sink / urinal	
	3. Exhaust ventilation	
	4. Telephone / Data jacks	
	5. Adjacent to Watch Room / Dispatch	

10. *Equipment Storage Room*

a.	<u>Equipment Storage Room</u>	150
	1. Storage of bullet proof vests, tactical gear, office supplies	
	2. Adjacent to Watch Room / Dispatch, Roll Call	

11. *Roll Call*

a.	<u>Roll Call</u>	300
	1. Training table seating for twelve (12)	
	2. Supervisor's workstation for one (1)	
	3. Markerboard	
	4. Bookshelving / manual storage	
	5. Wall mounted monitor(s)	
	6. Adjacent to Equipment Storage Room, Watch Room / Dispatch, Firefighter's Functions	

12. *Tour Commander*

a.	<u>Tour Commander</u>	125
	1. Workstation for one (1)	
	2. Visitor's chairs for two (2)	
	3. File storage	
	4. Bookshelving / manuals storage	
	5. Adjacent to Firefighter's Functions	

13. *Firefighter's Functions*

- | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| a. | <u>Day Room / Kitchen / Dining</u> | <u>1,000</u> |
| | <ol style="list-style-type: none"> 1. Comfortable furniture, "living room" setting 2. Cable TV access, wall mounted monitor 3. Total seating for eight (8) 4. Kitchen facilities with range, ventilation hood, double refrigerators, freezer unit, hand wash sink, preparation sink, disposal 5. Coffee maker 6. Grease trap 7. Emergency gas shut off valve 8. Ice Machine, 400# capacity, minimum 9. Trash / recycling containers 10. Markerboard 11. Dining table to seat twelve to fifteen (12-15) 12. Work counter with bar stool seating for six (6) 13. Locate adjacent to Turn-out Gear, Apparatus Bays, Exterior Entry | |
| b. | <u>Study Room (future Lt's Office)</u> | <u>125</u> |
| | <ol style="list-style-type: none"> 1. Area for quiet study / research 2. Workstations for two (2) 3. Adjacent to Tour Commander | |

14. *Bunk Rooms / Restrooms / Lockers*

- | | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|
| a. | <u>Officer's Bunk Room</u> | <u>One (1) @ 150</u> | <u>150</u> |
| | <ol style="list-style-type: none"> 1. Individual sleeping room (capacity of 1 / room) 2. Twin size mattresses with nightstands 3. Desks / chair 4. Direct and indirect lighting 5. Four (4) cubbie compartments, lockable 6. Hard surface flooring 7. Adjacent to Restrooms, Lockers | | |
| b. | <u>Firefighter's / EMS Bunk Rooms</u> | <u>Seven (7) @ 100</u> | <u>700</u> |
| | <ol style="list-style-type: none"> 1. Individual sleeping rooms (capacity of 1 / room) 2. Twin size mattresses with nightstands 3. Desks / chairs within individual sleeping rooms 4. Direct and indirect lighting 5. Four cubbie compartments, lockable 6. Hard surface flooring 7. Adjacent to Restrooms, Lockers | | |

- | | | | |
|----|----------------------------------------------------------------------------------------------------|----------------|-----|
| c. | Restrooms / Showers | Four (4) @ 120 | 480 |
| | 1. Individual restrooms / showers / changing rooms | | |
| | 2. Each restroom to contain toilet, urinal, sink, shower unit | | |
| | 3. Robe hooks | | |
| | 4. Wall mirror | | |
| | 5. Convenience outlets | | |
| d. | Property Lockers | | 500 |
| | 1. Thirty-two, minimum, full size lockers for firefighter's personal use. | | |
| | 2. Locker size: 24" x 24" x 72" with storage drawer, power receptacles for recharging, ventilation | | |
| | 3. Adjacent to Bunk Rooms, Restrooms | | |

15. *Physical Training Room*

- | | | | |
|----|---------------------------------------------------------------------|--|-----|
| a. | Physical Training Room | | 400 |
| | 1. Ceiling clearance for weightlifting / free weights | | |
| | 2. Drinking fountain with bottle filler | | |
| | 3. Mirrored wall surfaces | | |
| | 4. Sports flooring surface | | |
| | 5. Electrical outlets for stationary fitness equipment | | |
| | 6. Wall mounted monitor(s) | | |
| | 7. Adjacent to Firefighter's Functions, Property Lockers, Restrooms | | |

16. Apparatus Bays

- | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| a. | <u>Apparatus Bays</u> | 4,320 |
| | <ol style="list-style-type: none"> 1. Three (3) double-deep bays required, (18' wide x 80' long per double deep apparatus bays preferred) 2. 14' wide x 14' high apparatus bay doors at each bay 3. 120 V. @ each bay 4. Exhaust system for apparatus (complete capture and exhaust) 5. Trench style floor drains centrally located at each bay with oil and grease entrapment system 6. Radio speakers / intercom system / paging/alert tone 7. Compressed air overhead with shut down disconnects at each apparatus 8. Overhead tank water fill at select apparatus 9. Multiple hose bibb connections (inside and outside bays) 10. Pressure washer hookups located in multiple locations with soap solution pickup tube. 11. Auto door openers with remotes on all bay doors (both ends) 12. Markerboard / apparatus status and daily check clipboard area 13. Radio charging station 14. Networked printer location 15. Radiant heating throughout floor slabs | |
| b. | <u>Turn-out Gear Locker Area</u> | 500 |
| | <ol style="list-style-type: none"> 1. Lockers for gear storage, 24" x 24" x 72", open style 2. Total number: Thirty-two (32) minimum 3. Floor drains 4. Ventilated 5. Seamless flooring with radiant heating 6. Radio recharge station and supplies storage 7. Adjacent to Apparatus Bays | |
| c. | <u>Cascade Room</u> | 150 |
| | <ol style="list-style-type: none"> 1. Cascade fill system for air packs 2. Air pack storage racks and fill station 3. Workbench area 4. Storage of all oxygen bottle inventory 5. Adjacent to Apparatus Bays | |

- d. Decontamination / Washer and Dryer Room 280
1. Direct entrance from exterior of Apparatus Bays
 2. Industrial sized washer/extractor and dryer for gear
 3. Decontamination deluge shower enclosure (for full gear)
 4. Commercial washer / dryer for towels / department use
 5. Directly vent dryers to exterior
 6. Larger slop sink to pre-wash gear
 7. Drying racks (coats/pants and boots)
 8. Eye wash station
 9. Floor drains with capture system for runoff
 10. Cleaning of soiled equipment according to NFPA 1581 standards
 11. Wall dispenser for cleaning soaps and degreasers
 12. Adjacent to Apparatus Bays and Exterior Entry
- e. General Storage 575
1. Emergency lighting / electric generators
 2. Portable pumps
 3. Speedy dry
 4. Air compressor tools and supplies
 5. Foam storage
 6. Haz-mat equipment
 7. Cleaning supplies
 8. Protective clothing
 9. Portable extinguishers
 10. Emergency lighting
 11. Adjacent to Apparatus Bays
- f. Gear Supply Storage 100
1. Protective clothing storage shelving
 2. Storage of helmets, boots, department issued equipment
- g. Hose Storage 180
1. Double door entry
 2. Portable hose rack storage
 3. Floor drain
 4. Adjacent to Apparatus Bays

h.	<u>Maintenance Room</u>	150
	<ol style="list-style-type: none"> 1. Workbench with vise 2. Workstation for one (1) 3. File storage for maintenance paperwork 4. Welding machine 5. Drill press / parts washer 6. Equipment / tools storage racks 7. Adjacent to Parts Storage, Apparatus Bays 	
i.	<u>Parts Storage</u>	120
	<ol style="list-style-type: none"> 1. Wire mesh enclosure 2. Industrial shelving units for spare parts, inventory, gear 3. Access controlled 4. Adjacent to Maintenance Room, Apparatus Bays 	
j.	<u>Medical Supply Storage</u>	150
	<ol style="list-style-type: none"> 1. Access controlled point of entry 2. Adjustable shelving for medical supply inventory 3. Refrigerator 4. Adjacent to Apparatus Bays / Ambulance Bay 	
k.	<u>Toilet Rooms (Unisex)</u>	60
	<ol style="list-style-type: none"> 1. Handicap accessible 2. Toilet / sink / urinal 3. Exhaust ventilation 4. Adjacent to Apparatus Bays 	

17. Custodial Services

a.	<u>Custodial Closets</u>	Two (2) @ 60	120
	<ol style="list-style-type: none"> 1. One per floor (minimum) 2. Floor sink 3. Janitorial supplies / cart storage 4. Equipment storage 		

18. *Mechanical*

- | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| a. | <u>Boiler Room</u> | <u>600</u> |
| | <ol style="list-style-type: none"> 1. Two boilers, minimum, for redundancy 2. Circulation pumps 3. Hot water heater 4. Floor drains 5. Chimney breaching | |
| b. | <u>HVAC Equipment</u> | <u>w/in Boiler Room / Roof</u> |
| | <ol style="list-style-type: none"> 1. Ducted supply and returns 2. High efficiency filters 3. VAV boxes with DDC controls 4. Zoned systems 5. Radiant floor heating within Apparatus Bays and adjacent spaces 6. Host computer w/in Computer Data Room 7. Varied locations throughout facility / roof top | |
| c. | <u>Emergency Generator</u> | <u>Exterior pad mounted</u> |
| | <ol style="list-style-type: none"> 1. See Exterior Considerations | |
| d. | <u>Electrical Switchgear Room</u> | <u>180</u> |
| | <ol style="list-style-type: none"> 1. Main Distribution Panel (MDP) 2. Electrical subpanels | |
| e. | <u>Emergency Electrical Room</u> | <u>100</u> |
| | <ol style="list-style-type: none"> 1. Electrical subpanels for life safety power requirements 2. Automatic transfer switch | |
| f. | <u>Fire Suppression</u> | <u>80</u> |
| | <ol style="list-style-type: none"> 1. Valve assemblies / tamper switches / zoned systems 2. Municipal water supply 3. Fully sprinkled facility per NFPA 13 standards 4. Code designed minimum | |

19. *Computer Data Rooms*

- | | | |
|----|------------------------------------------------------------------------------------------------------------|------------|
| a. | <u>Computer Data Room</u> | <u>200</u> |
| 1. | Workstation for one (1) | |
| 2. | Manual storage shelving | |
| 3. | Wall mounted and rack mounted data equipment | |
| 4. | Server location and head end location for data, telephone, access control, CCTV, radio equipment, antennas | |
| 5. | Patch panels for data / telephone wiring | |
| 6. | UPS system for all rack mounted equipment, E.O.C. functions, Watch Room | |
| 7. | Conduit pathways to Watch Room, E.O.C., antenna mounts | |

20. *Circulation*

- | | | |
|----|---------------------------------------------------------------------------------------------|--------------------------------------|
| a. | <u>Corridors</u> | <u>w/in net to gross calculation</u> |
| 1. | 48" clear width (min.) | |
| b. | <u>Stairs</u> | <u>w/in net to gross calculation</u> |
| 1. | 48" clear width (min.) | |
| 2. | Incorporate exterior openings for training exercises, confined space training, training use | |
| 3. | Hard, washable surfaces | |
| 4. | Floor drain | |
| c. | <u>Elevator</u> | <u>w/in net to gross calculation</u> |
| 1. | Incorporate if public access / civilian employees are present on upper floors | |
| 2. | Code minimum requirements for stretcher access | |
| 3. | Adjacent to public access, if required | |

21. *Equipment Storage Bays*

- | | | |
|----|----------------------------------------------------------------------------|--------------|
| a. | <u>Equipment Storage Bays</u> | <u>1,500</u> |
| 1. | Indoor storage bays, three (3), for fire vehicles, trailers, bulk supplies | |
| 2. | Heated and ventilated, radiant floor slab heating | |
| 3. | Overhead door access with motor operators | |
| 4. | Equipment charging locations | |
| 5. | Adjacent to Firefighter's Functions, Apparatus Bays | |

BRIDGEWATER FIRE STATIONS #2 & #3

Proposed Square Footage **(Net)**

1. Public

a.	<u>Vestibule</u>		<u>120</u>
	1.	Identifiable main entrance location for Public access	
	2.	Air-lock vestibule	
	3.	Walk off mat	
	4.	Intercom / Phone within Vestibule, autodial to FD Dispatch	
b.	<u>Public Lobby</u>		<u>250</u>
	1.	Access to Watch Room, Training Classroom	
	2.	Video monitoring of space	
	3.	House telephone	
	4.	Public seating for 2-4	
	5.	Display case	
	6.	Pamphlet rack	
	7.	Tackboard / Poster case	
	8.	Water cooler	
	9.	Adjacent to Training Classroom, Public Toilet	
c.	<u>Public Toilet Room</u>	<u>One (1) @ 60</u>	<u>60</u>
	1.	Handicap accessible	
	2.	Unixex toilet rooms, single fixture	
	3.	For public use when visiting facility	
	4.	Adjacent to Public Lobby, Training Classroom	

2. *Training Classroom / Community Meeting Room*

- a. Location
1. Adjacent to Public Lobby, Toilet, Exterior Entry
 2. Utilize for Department Training, Meetings, Social Events, Community gatherings.
- b. Training Classroom 450
1. Seating for fifteen (15) at training tables and chairs
 2. Flat floor, hard floor surface
 3. Projection screen / Smartboard
 4. Independent sound system
 5. Lighting on dimmers, varied lighting levels
 6. Movable tables and chairs
 7. TV monitor(s) with A/V connections
 8. Coat storage
 9. Portable podium
 10. Coffee counter with sink, microwave, under counter refrigerator
- c. Furniture Storage 100
1. Storage of movable table and chairs
 2. Adjacent to Training Classroom
- d. Audio Visual / Training Supplies Storage 80
1. Storage of sound system amplifier head end equipment
 2. Storage of training supplies and equipment
 3. Rack mounted equipment

3. *Supplies Storage*

- a. Supplies Storage 100
1. Storage of emergency management supplies, cots
 2. Adjacent to Training Classroom

4. *Medical Exam Room*

- a. Medical Exam Room 75
1. Personal exam space for use by professional staff
 2. Sink / countertop / storage cabinet / PPE storage
 3. Adjacent to Public Lobby, Training Classroom

5. *Watch Room / Copy Room / Workroom*

- a. Watch Room / Dispatch 350
1. Console position for one (1) to include base radios, dispatch equipment, local radio frequencies for PD / DPW / Mutual Aid
 2. Computer workstations for two (2)
 3. Access control at points of entry
 4. Overhead door controls for Apparatus Bays
 5. Lighting on dimming controls / uplighting
 6. Bookshelving / Manuals storage
 7. Tackboard / markerboard
 8. Monitoring of building CCTV network
 9. Conduits to antenna mount locations
 10. Tone generator
 11. Recharge racks for portable radios / battery recharging
 12. High speed copier, scanner, networked to workstations
 13. Fax machine
 14. Paper shredder
 15. Adjacent to Firefighter's Functions, Apparatus Bays
- b. Supplies Storage 80
1. Office supplies storage
 2. Bulk paper storage
 3. Adjacent to Watch Room / Copy Room / Workroom

6. *Supervisor's Office*

- a. Supervisor's Office (Lieutenant) 125
1. Workstation for one (1)
 2. Visitor's chairs for two (2)
 3. File storage
 4. Bookshelving / manuals storage
 5. Adjacent to Watch Room, Firefighter's Functions

7. *Firefighter's Functions*

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| a. | <u>Day Room / Kitchen / Dining</u> | 700 |
| | <ol style="list-style-type: none"> 1. Comfortable furniture, "living room" setting 2. Cable TV access, wall mounted monitor 3. Total seating for six (6) 4. Kitchen facilities with range, ventilation hood, double refrigerators, freezer unit, hand wash sink, preparation sink, disposal 5. Coffee maker 6. Grease trap 7. Emergency gas shut off valve 8. Ice Machine, 400# capacity, minimum 9. Trash / recycling containers 10. Markerboard 11. Dining table to seat six (6) 12. Work counter with bar stool seating for four (4) 13. Locate adjacent to Turn-out Gear, Apparatus Bays, Exterior Entry | |
| b. | <u>Study Room (future Office)</u> | 125 |
| | <ol style="list-style-type: none"> 1. Area for quiet study / research 2. Workstations for two (2) 3. Adjacent to Supervisor's Office | |

8. *Bunk Rooms / Restrooms / Lockers*

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|
| a. | <u>Officer's Bunk Room</u> | <u>One (1) @ 150</u> | 150 |
| | <ol style="list-style-type: none"> 1. Double occupancy sleeping room (capacity of 2 / room) 2. Twin size mattresses with nightstands 3. Desks / chair 4. Direct and indirect lighting 5. Eight (8) cubbie compartments, lockable 6. Hard surface flooring 7. Adjacent to Restrooms, Lockers | | |
| b. | <u>Firefighter's / EMS Bunk Rooms</u> | <u>Five (5) @ 100</u> | 500 |
| | <ol style="list-style-type: none"> 1. Individual sleeping rooms (capacity of 1 / room) 2. Twin size mattresses with nightstands 3. Desks / chairs within individual sleeping rooms 4. Direct and indirect lighting 5. Four (4) cubbie compartments, lockable 6. Hard surface flooring 7. Adjacent to Restrooms, Lockers | | |

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|----|----------------------------|-------------------------------------------------------------------------------------------------|------------|
| c. | <u>Restrooms / Showers</u> | <u>Three (3) @ 120</u> | <u>360</u> |
| | 1. | Individual restrooms / showers / changing rooms | |
| | 2. | Each restroom to contain toilet, urinal, sink, shower unit | |
| | 3. | Robe hooks | |
| | 4. | Wall mirror | |
| | 5. | Convenience outlets | |
| d. | <u>Property Lockers</u> | | <u>480</u> |
| | 1. | Twenty-eight (28), minimum, full size lockers for firefighter's personal use. | |
| | 2. | Locker size: 24" x 24" x 72" with storage drawer, power receptacles for recharging, ventilation | |
| | 3. | Adjacent to Bunk Rooms, Restrooms | |

9. *Physical Training Room*

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|----|-------------------------------|------------------------------------------------------------------|------------|
| a. | <u>Physical Training Room</u> | | <u>350</u> |
| | 1. | Ceiling clearance for weightlifting / free weights | |
| | 2. | Drinking fountain with bottle filler | |
| | 3. | Mirrored wall surfaces | |
| | 4. | Sports flooring surface | |
| | 5. | Electrical outlets for stationary fitness equipment | |
| | 6. | Wall mounted monitor(s) | |
| | 7. | Adjacent to Firefighter's Functions, Property Lockers, Restrooms | |

10. Apparatus Bays

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| a. | <u>Apparatus Bays</u> | 2,880 |
| | <ol style="list-style-type: none"> 1. Two (2) double-deep bays required, (18' wide x 80' long per double deep apparatus bays preferred) 2. 14' wide x 14' high apparatus bay doors at each bay 3. 120 V. @ each bay 4. Exhaust system for apparatus (complete capture and exhaust) 5. Trench style floor drains centrally located at each bay with oil and grease entrapment system 6. Radio speakers / intercom system / paging/alert tone 7. Compressed air overhead with shut down disconnects at each apparatus 8. Overhead tank water fill at select apparatus 9. Multiple hose bibb connections (inside and outside bays) 10. Pressure washer hookups located in multiple locations with soap solution pickup tube. 11. Auto door openers with remotes on all bay doors (both ends) 12. Markerboard / apparatus status and daily check clipboard area 13. Radio charging station 14. Networked printer location 15. Radiant heating throughout floor slabs | |
| b. | <u>Turn-out Gear Locker Area</u> | 480 |
| | <ol style="list-style-type: none"> 1. Lockers for gear storage, 24" x 24" x 72", open style 2. Total number: Twenty-eight (28), minimum 3. Floor drains 4. Ventilated 5. Seamless flooring with radiant heating 6. Radio recharge station and supplies storage 7. Adjacent to Apparatus Bays | |
| c. | <u>Cascade Room</u> | 150 |
| | <ol style="list-style-type: none"> 1. Cascade fill system for air packs 2. Air pack storage racks and fill station 3. Workbench area 4. Adjacent to Apparatus Bays | |

- d. Decontamination / Washer and Dryer Room 280
1. Direct entrance from exterior of Apparatus Bays
 2. Industrial sized washer/extractor and dryer for gear
 3. Decontamination deluge shower enclosure (for full gear)
 4. Commercial washer / dryer for towels / department use
 5. Directly vent dryers to exterior
 6. Larger slop sink to pre-wash gear
 7. Drying racks (coats/pants and boots)
 8. Eye wash station
 9. Floor drains with capture system for runoff
 10. Cleaning of soiled equipment according to NFPA 1581 standards
 11. Wall dispenser for cleaning soaps and degreasers
 12. Adjacent to Apparatus Bays and Exterior Entry
- e. General Storage 500
1. Emergency lighting / electric generators
 2. Portable pumps
 3. Speedy dry
 4. Air compressor tools and supplies
 5. Foam storage
 6. Haz-mat equipment
 7. Cleaning supplies
 8. Protective clothing
 9. Portable extinguishers
 10. Emergency lighting
 11. Adjacent to Apparatus Bays
- f. Gear Supply Storage 100
1. Protective clothing storage shelving
 2. Storage of helmets, boots, department issued equipment
- g. Hose Storage 180
1. Double door entry
 2. Portable hose rack storage
 3. Floor drain
 4. Adjacent to Apparatus Bays

h.	<u>Maintenance Room</u>	150
	<ol style="list-style-type: none"> 1. Workbench with vise 2. Workstation for one (1) 3. File storage for maintenance paperwork 4. Welding machine 5. Drill press / parts washer 6. Equipment / tools storage racks 7. Adjacent to Parts Storage, Apparatus Bays 	
i.	<u>Medical Supply Storage</u>	150
	<ol style="list-style-type: none"> 1. Access controlled point of entry 2. Adjustable shelving for medical supply inventory 3. Refrigerator 4. Adjacent to Apparatus Bays / Ambulance Bay 	
j.	<u>Toilet Rooms (Unisex)</u>	60
	<ol style="list-style-type: none"> 1. Handicap accessible 2. Toilet / sink / urinal 3. Exhaust ventilation 4. Adjacent to Apparatus Bays 	

11. Custodial Services

a.	<u>Custodial Closets</u>	<u>One (1) @ 60</u>	60
	<ol style="list-style-type: none"> 1. One per floor (minimum) 2. Floor sink 3. Janitorial supplies / cart storage 4. Equipment storage 		

12. Mechanical

- | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| a. | <u>Boiler Room</u> | 400 |
| | <ol style="list-style-type: none"> 1. Two boilers, minimum, for redundancy 2. Circulation pumps 3. Hot water heater 4. Floor drains 5. Chimney breaching | |
| b. | <u>HVAC Equipment</u> | w/in Boiler Room / Roof |
| | <ol style="list-style-type: none"> 1. Ducted supply and returns 2. High efficiency filters 3. VAV boxes with DDC controls 4. Zoned systems 5. Radiant floor heating within Apparatus Bays and adjacent spaces 6. Host computer w/in Computer Data Room 7. Varied locations throughout facility / roof top | |
| c. | <u>Emergency Generator</u> | Exterior pad mounted |
| | <ol style="list-style-type: none"> 1. See Exterior Considerations | |
| d. | <u>Electrical Switchgear Room</u> | 150 |
| | <ol style="list-style-type: none"> 1. Main Distribution Panel (MDP) 2. Electrical subpanels | |
| e. | <u>Emergency Electrical Room</u> | 80 |
| | <ol style="list-style-type: none"> 1. Electrical subpanels for life safety power requirements 2. Automatic transfer switch | |
| f. | <u>Fire Suppression</u> | 80 |
| | <ol style="list-style-type: none"> 1. Municipal water supply 2. Fully sprinkled facility per NFPA 13 standards 3. Code designed minimum | |

13. Computer Data Room

- | | | |
|----|------------------------------------------------------------------------------------------------------------|------------|
| a. | <u>Computer Data Room</u> | <u>150</u> |
| 1. | Workstation for one (1) | |
| 2. | Manual storage shelving | |
| 3. | Wall mounted and rack mounted data equipment | |
| 4. | Server location and head end location for data, telephone, access control, CCTV, radio equipment, antennas | |
| 5. | Patch panels for data / telephone wiring | |
| 6. | UPS system for all rack mounted equipment, E.O.C. functions, Watch Room | |
| 7. | Conduit pathways to Watch Room, E.O.C., antenna mounts | |

14. Circulation

- | | | |
|----|---------------------------------------------------------------------------------------------|--------------------------------------|
| a. | <u>Corridors</u> | <u>w/in net to gross calculation</u> |
| 5. | 48" clear width (min.) | |
| b. | <u>Stairs</u> | <u>w/in net to gross calculation</u> |
| 1. | 48" clear width (min.) | |
| 2. | Incorporate exterior openings for training exercises, confined space training, training use | |
| 3. | Hard, washable surfaces | |
| 4. | Floor drain | |

15. Vehicle Carport Shelter

- | | | |
|----|----------------------------------------------------------------------|--------------|
| a. | <u>Vehicle Carport Shelter</u> | <u>1,600</u> |
| 1. | Sheltered parking for eight (8) official vehicles, equipment | |
| 2. | Overhead lighting | |
| 3. | Weatherproof, electrical outlets for recharging, convenience outlets | |
| 4. | Adjacent to Firefighter's Functions, Exterior Entry | |

SPACE NEEDS SUMMARY

Summary Sheet

Square Ft. required

BRIDGEWATER FIRE HEADQUARTERS	
Public	880
Training Classroom / E.O.C. / Community Meeting Room	1,480
Training Supplies Storage	80
Medical Exam Room	75
Emergency Management Director's Office	125
Fire Prevention Office	645
Administrative Offices	1,640
Watch Room / Dispatch	410
Equipment Storage Room	150
Roll Call	300
Tour Commander	125
Firefighter's Functions	1,125
Bunk Rooms / Restrooms / Lockers	1,830
Physical Training Room	400
Apparatus Bays	6,585
Custodial Services	120
Mechanical	960
Computer Data Room	200
Circulation	w/in net to gross
Equipment Storage Bays	1,500
Total Net Square Footage	18,630
Net to Gross Factor for Apparatus Bays (x 1.10)	660
Net to Gross Factor for all other spaces (x 1.35)	4,200
Total Gross Square Footage Required	23,490

SPACE NEEDS SUMMARY

Summary Sheet

Square Ft. required

BRIDGEWATER STATIONS #2 & #3	
Public	430
Training Classroom / Community Meeting Room	630
Supplies Storage	100
Medical Exam Room	75
Watch Room / Copy Room / Workroom	430
Supervisor's Office	125
Firefighter's Functions	825
Bunk Rooms / Restrooms / Lockers	1,490
Physical Training Room	350
Apparatus Bays	4,930
Custodial Services	60
Mechanical	710
Computer Data Room	150
Circulation	w/in net to gross
Vehicle Carport Shelter	1,600
Total Net Square Footage	11,905
Net to Gross Factor for Apparatus Bays (x 1.10)	500
Net to Gross Factor for all other spaces (x 1.35)	2,445
Total Gross Square Footage Required	14,850

EXTERIOR CONSIDERATIONS

- a. Public Parking
1. Total number of spaces preferred = _____ to support Training Classroom occupancy
 2. Vehicle drop off area
 3. Handicap parking spaces = _____ minimum, van accessible
- b. Fire / EMS Vehicle and Staff Parking
1. Total number of spaces required (fire) = _____ preferred for Fire / EMS staff vehicles
 2. Motorcycle parking required = ____
 3. Motorcycle parking on concrete pad
- c. Flagpoles
1. USA
 2. State
 3. Memorial stone dedication area adjacent to flagpoles
 4. Internal halyard
 5. Ground mounted lighting
- d. Signs
1. Department identification
 2. Located at roadside
 3. Located on building
 4. Illuminated
 5. Conforms to Local Zoning
- e. Lighting
1. Lighting in public areas
 2. Lighting in all parking areas
 3. Illuminated walkways
 4. Illuminated entry locations
 5. Lighting coordinated with CCTV locations
- f. Handicap accessibility
1. Entire facility handicap accessible
 2. Wheelchair access to public entry

- g. CCTV Cameras
1. Color, multi-sensor cameras preferred
 2. Weatherproof housings
 3. Pole mounted away from structure to control points of entry
 4. Provide surveillance for exterior and interior security needs
- h. Plant Material
1. Minimize grass areas and required lawn maintenance
 2. Low ground cover preferred
 3. Decorative trees not to conflict with snow storage locations
- i. Trash Storage
1. Number of dumpsters required = One (1) general trash, one (1) recycling container, minimum
 2. Fenced enclosure with gate
 3. Concrete pad for rodent control
- j. Snow Storage Lawn Areas
1. Provide snow storage capacity adjacent to paved areas
- k. Exterior Hose Bibb Locations
1. Provide varied locations around building
 2. Exterior wash down locations at Apparatus Bays preferred
- l. Communications Antenna
1. Roof mounted antennas anticipated
 2. Conduit paths to Computer Data Room / Watch Room location
- m. Emergency Generator
1. Diesel fueled generator preferred
 2. Automatic transfer switch in Emergency Electrical Room
 3. Weatherproof enclosure on concrete pad
 4. Sized for 100% load of facility
- n. Patio / Picnic Area
1. Outdoor seating / dining area for staff use
 2. Grill area with natural gas connection
 3. Adjacent to Firefighter's Functions

Serving the Public Safety Community

J J H

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